



3

Sequence Listing

<110> Chen, Jian
Filvaroff, Ellen
Goddard, Audrey
Gurney, Austin
Li, Hanzhong
Wood, William I.

<120> IL-17 HOMOLOGOUS POLYPEPTIDES AND THERAPEUTIC USES THEREOF

<130> P1381R1C2

<140> US 09/854,280

<141> 2001-05-10

<150> US 09/311,832

<151> 1999-05-14

<150> US 60/085,579

<151> 1998-05-15

<150> US 60/113,621

<151> 1998-12-23

<160> 26

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<212> PRT

<213> Homo sapiens

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Met	Asp	Trp	Pro	His	Asn	Leu	Leu	Phe	Leu	Leu	Thr	Ile	Ser	Ile
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Phe	Leu	Gly	Leu	Gly	Gln	Pro	Arg	Ser	Pro	Lys	Ser	Lys	Arg	Lys
			20						25					30

Gly	Gln	Gly	Arg	Pro	Gly	Pro	Leu	Ala	Pro	Gly	Pro	His	Gln	Val
			35						40					45

Pro	Leu	Asp	Leu	Val	Ser	Arg	Met	Lys	Pro	Tyr	Ala	Arg	Met	Glu
			50						55					60

Glu	Tyr	Glu	Arg	Asn	Ile	Glu	Glu	Met	Val	Ala	Gln	Leu	Arg	Asn
			65						70					75

Ser	Ser	Glu	Leu	Ala	Gln	Arg	Lys	Cys	Glu	Val	Asn	Leu	Gln	Leu
			80						85					90

Trp	Met	Ser	Asn	Lys	Arg	Ser	Leu	Ser	Pro	Trp	Gly	Tyr	Ser	Ile
			95						100					105

Asn	His	Asp	Pro	Ser	Arg	Ile	Pro	Val	Asp	Leu	Pro	Glu	Ala	Arg
			110						115					120

Cys Leu Cys Leu Gly Cys Val Asn Pro Phe Thr Met Gln Glu Asp

	125		130		135
Arg Ser Met Val Ser Val Pro Val Phe Ser Gln Val Pro Val Arg					
	140		145		150
Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr Gly Pro Cys Arg Gln					
	155		160		165
Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys Thr Cys Ile Phe					
	170		175		180

<210> 2
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 ccagcccagg agccccaaaa gcaagaggaa ggggcaagg cgccctgggc 150
 ccctggcccc tggccctcac caggtgccac tggacctggt gtcacggatg 200
 aaaccgtatg cccgcatgga ggagtatgag aggaacatcg aggagatggt 250
 ggcccagctg aggaacagct cagagctggc ccagagaaaag tgtgaggtca 300
 acttgcagct gtggatgtcc aacaagagga gcctgtctcc ctggggctac 350
 agcatcaacc acgaccccag ccgtatcccc gtggacctgc cggaggcacg 400
 gtgcctgtgt ctgggctgtg tgaacccctt caccatgcag gaggaccgca 450
 gcatggtgag cgtgccggtg ttcagccagg ttcctgtgcg ccgccgcctc 500
 tgcccgccac cgcccgcac agggccttgc cgccagcgcg cagtcatgga 550
 gaccatcgct gtgggctgca cctgcattct ctgaatcacc tggcccagaa 600
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 ggcctatgaa aagtaaaccac tgacttttga aagcaag 687

<210> 3
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 3
 Met Thr Leu Leu Pro Gly Leu Leu Phe Leu Thr Trp Leu His Thr
 1 5 10 15
 Cys Leu Ala His His Asp Pro Ser Leu Arg Gly His Pro His Ser
 20 25 30
 His Gly Thr Pro His Cys Tyr Ser Ala Glu Glu Leu Pro Leu Gly

35										40					45				
Gln	Ala	Pro	Pro	His	Leu	Leu	Ala	Arg	Gly	Ala	Lys	Trp	Gly	Gln					
				50					55					60					
Ala	Leu	Pro	Val	Ala	Leu	Val	Ser	Ser	Leu	Glu	Ala	Ala	Ser	His					
				65					70					75					
Arg	Gly	Arg	His	Glu	Arg	Pro	Ser	Ala	Thr	Thr	Gln	Cys	Pro	Val					
				80					85					90					
Leu	Arg	Pro	Glu	Glu	Val	Leu	Glu	Ala	Asp	Thr	His	Gln	Arg	Ser					
				95					100					105					
Ile	Ser	Pro	Trp	Arg	Tyr	Arg	Val	Asp	Thr	Asp	Glu	Asp	Arg	Tyr					
				110					115					120					
Pro	Gln	Lys	Leu	Ala	Phe	Ala	Glu	Cys	Leu	Cys	Arg	Gly	Cys	Ile					
				125					130					135					
Asp	Ala	Arg	Thr	Gly	Arg	Glu	Thr	Ala	Ala	Leu	Asn	Ser	Val	Arg					
				140					145					150					
Leu	Leu	Gln	Ser	Leu	Leu	Val	Leu	Arg	Arg	Arg	Pro	Cys	Ser	Arg					
				155					160					165					
Asp	Gly	Ser	Gly	Leu	Pro	Thr	Pro	Gly	Ala	Phe	Ala	Phe	His	Thr					
				170					175					180					
Glu	Phe	Ile	His	Val	Pro	Val	Gly	Cys	Thr	Cys	Val	Leu	Pro	Arg					
				185					190					195					

Ser Val

<210> 4
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 <212> DNA
 <213> Homo sapiens

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 gccaccatg accctccct cagggggcac cccacagtc acggtacccc 150
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 tgctggctcg aggtgccaag tgggggcagg ctttgctgt agccctggtg 250
 tccagcctgg aggcagcaag ccacaggggg aggcacgaga ggccctcagc 300
 tacgaccag tgcccggtgc tgcggccgga ggaggtgttg gaggcagaca 350
 cccaccagc ctccatctca ccctggagat accgtgtgga cacggatgag 400
 gaccgctatc cacagaagct ggccttcgcc gaggcctgt gcagaggctg 450

tatcgatgca cggacggggc gcgagacagc tgcgctcaac tccgtgcggc 500
 tgctccagag cctgctggtg ctgcgccgcc ggccctgctc ccgcgacggc 550
 tcggggctcc ccacacctgg ggcctttgcc ttccacaccg agttcatcca 600
 cgtccccgtc ggctgcacct gcgtgctgcc ccgttcagtg tgaccgccga 650
 ggccgtgggg cccctagact ggacacgtgt gctccccaga gggcaccccc 700
 tatttatgtg tattttattgt tatttatatg cctcccccaa cactaccctt 750
 ggggtctggg cattccccgt gtctggagga cagcccccca ctgttctcct 800
 catctccagc ctacagtagt gggggtagaa ggagctcagc acctcttcca 850
 gcccttaaag ctgcagaaaa ggtgtcacac ggctgcctgt accttggtc 900
 cctgtcctgc tcccggcttc ccttacccta tcaactggcct caggccccgc 950
 aggtgcctc ttcccaacct ccttggaagt acccctgttt cttaaacaat 1000
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<210> 5
 <211> 830
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 105-115
 <223> unknown base

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 cctggttctt gtccttggg actctgggac ttacaccagt ggcacccctg 100
 gctcnnnnnn nnnnnaattc ggtacgaggc tgggggtcag gcgggcagca 150
 gctgcaggct gaccttgag cttggcgga tggactggcc tcacaacctg 200
 ctgtttcttc ttaccatttc catcttctc gggctgggcc agcccaggag 250
 cccaaaagc aagaggaagg ggcaaggcg gcctgggcc ctggtccctg 300
 gccctcacca ggtgccactg gacctggtgt cacggatgaa accgtatgcc 350
 cgcattggagg agtatgagag gaacatcgag gagatgttgg cccagctgag 400
 gaacagttca gagctggccc agagaaagt tgaggtcaac ttgcagctgt 450
 ggatgtccaa caagaggagc ctgtctcct ggggtacag catcaaccac 500
 gacccagcc gtatccccgt ggacctccg aggcacggtg cctgtgtctg 550
 ggcttgtgtg aacccttca ccatgcagga ggaccgcagc atggtgagcg 600

tgccggtgtt cagccaggtt cctgtgcgcc gccgcctctg cccgccaccg 650
 ccccgcacag ggccttgccg ccagcgcgca gtcattggaga ccattgctgt 700
 gggctgcacc tgcattcttct gaatcgacct ggcccagaag ccaggccagc 750
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 agtaaact gacttttgaa agcaaaaaaa 830

<210> 6
 <211> 397
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> 10, 150, 267
 <223> unknown base

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 ctcacaacct gctgtttctt cttaccattt ccattcttct ggggctgggc 100
 agccaggagc cccaaaagca agaggaaggg gcaagggcgg cctgggccc 150
 tggcctggcc tcaccaggtg ccactggacc tgggtgtcac gatgaaaccg 200
 tatgcccgc tggaggagta tgagaggaac atcgaggaga tggtgccca 250
 gctgaggaac agctcanaag ctggcccaga gaaagtgtga ggtcaacttg 300
 cagctgtgga tgtccaacaa gaaggagcct gtctcccttg gggctacaag 350
 catcaaccac cgaccccagc cgtatccccg tgggaccttg ccgggac 397

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 <211> 230
 <212> DNA
 <213> Homo sapiens

<400> 7
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 gcagaggctg tatcgatgca cggacgggcc gcgagacagc tgcgctcaac 100
 tccgtgcggc tgctccagag cctgctgggt ctgcgcgcc ggcctgctc 150
 ccgcgacggc tcggggctcc ccacacctgg ggcctttgcc ttccacaccg 200
 agttcatcca cgtccccgtc ggctgcacct 230

<210> 8
 <211> 24
 <212> DNA
 <213> Artificial sequence

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<220>
<223> Forward PCR primer

<400> 8
atccacagaa gctggccttc gccg 24

<210> 9
<211> 24
<212> DNA
<213> Artificial sequence

<220>
<223> reverse PCR primer

<400> 9
gggacgtgga tgaactcggg gtgg 24

<210> 10
<211> 40
<212> DNA
<213> Artificial sequence

<220>
<223> hybridization probe

<400> 10
tatccacaga agctggcctt cgccgagtg cgtgtgcagag 40

<210> 11
<211> 155
<212> PRT
<213> Homo sapiens

<400> 11
Met Thr Pro Gly Lys Thr Ser Leu Val Ser Leu Leu Leu Leu Leu
 1          5          10          15

Ser Leu Glu Ala Ile Val Lys Ala Gly Ile Thr Ile Pro Arg Asn
          20          25          30

Pro Gly Cys Pro Asn Ser Glu Asp Lys Asn Phe Pro Arg Thr Val
          35          40          45

Met Val Asn Leu Asn Ile His Asn Arg Asn Thr Asn Thr Asn Pro
          50          55          60

Lys Arg Ser Ser Asp Tyr Tyr Asn Arg Ser Thr Ser Pro Trp Asn
          65          70          75

Leu His Arg Asn Glu Asp Pro Glu Arg Tyr Pro Ser Val Ile Trp
          80          85          90

Glu Ala Lys Cys Arg His Leu Gly Cys Ile Asn Ala Asp Gly Asn
          95          100          105

Val Asp Tyr His Met Asn Ser Val Pro Ile Gln Gln Glu Ile Leu
          110          115          120

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Val Leu Arg Arg Glu Pro Pro His Cys Pro Asn Ser Phe Arg Leu
125 130 135

Glu Lys Ile Leu Val Ser Val Gly Cys Thr Cys Val Thr Pro Ile
140 145 150

Val His His Val Ala
155

<210> 12

<211> 408

<212> PRT

<213> Artificial Sequence

<220>

<223> IL17B-Fc fusion

<400> 12

Met Asp Trp Pro His Asn Leu Leu Phe Leu Leu Thr Ile Ser Ile
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Phe Leu Gly Leu Gly Gln Pro Arg Ser Pro Lys Ser Lys Arg Lys
20 25 30

Gly Gln Gly Arg Pro Gly Pro Leu Ala Pro Gly Pro His Gln Val
35 40 45

Pro Leu Asp Leu Val Ser Arg Met Lys Pro Tyr Ala Arg Met Glu
50 55 60

Glu Tyr Glu Arg Asn Ile Glu Glu Met Val Ala Gln Leu Arg Asn
65 70 75

Ser Ser Glu Leu Ala Gln Arg Lys Cys Glu Val Asn Leu Gln Leu
80 85 90

Trp Met Ser Asn Lys Arg Ser Leu Ser Pro Trp Gly Tyr Ser Ile
95 100 105

Asn His Asp Pro Ser Arg Ile Pro Val Asp Leu Pro Glu Ala Arg
110 115 120

Cys Leu Cys Leu Gly Cys Val Asn Pro Phe Thr Met Gln Glu Asp
125 130 135

Arg Ser Met Val Ser Val Pro Val Phe Ser Gln Val Pro Val Arg
140 145 150

Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr Gly Pro Cys Arg Gln
155 160 165

Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys Thr Cys Ile Phe
170 175 180

Pro Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu
185 190 195

Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp

	200	205	210
Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val	215	220	225
Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val	230	235	240
Asp Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu	245	250	255
Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu	260	265	270
His Gln Asp Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser	275	280	285
Asn Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala	290	295	300
Lys Gly Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser	305	310	315
Arg Glu Glu Met Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val	320	325	330
Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn	335	340	345
Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp	350	355	360
Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr Val Asp Lys	365	370	375
Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val Met His	380	385	390
Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu Ser	395	400	405

Pro Gly Lys

<210> 13
 <211> 425
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> IL-17C-Fc fusion

<400> 13	
Met Thr Leu Leu Pro Gly Leu Leu Phe Leu Thr Trp Leu His Thr	
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Cys Leu Ala His His Asp Pro Ser Leu Arg Gly His Pro His Ser	
20	30

His Gly Thr Pro	His Cys Tyr Ser Ala	Glu Glu Leu Pro Leu Gly	35	40	45
Gln Ala Pro Pro	His Leu Leu Ala Arg	Gly Ala Lys Trp Gly Gln	50	55	60
Ala Leu Pro Val	Ala Leu Val Ser Ser	Leu Glu Ala Ala Ser His	65	70	75
Arg Gly Arg His	Glu Arg Pro Ser Ala	Thr Thr Gln Cys Pro Val	80	85	90
Leu Arg Pro Glu	Glu Val Leu Glu Ala	Asp Thr His Gln Arg Ser	95	100	105
Ile Ser Pro Trp	Arg Tyr Arg Val Asp	Thr Asp Glu Asp Arg Tyr	110	115	120
Pro Gln Lys Leu	Ala Phe Ala Glu Cys	Leu Cys Arg Gly Cys Ile	125	130	135
Asp Ala Arg Thr	Gly Arg Glu Thr Ala	Ala Leu Asn Ser Val Arg	140	145	150
Leu Leu Gln Ser	Leu Leu Val Leu Arg	Arg Arg Pro Cys Ser Arg	155	160	165
Asp Gly Ser Gly	Leu Pro Thr Pro Gly	Ala Phe Ala Phe His Thr	170	175	180
Glu Phe Ile His	Val Pro Val Gly Cys	Thr Cys Val Leu Pro Arg	185	190	195
Ser Val Pro Asp	Lys Thr His Thr Cys	Pro Pro Cys Pro Ala Pro	200	205	210
Glu Leu Leu Gly	Gly Pro Ser Val Phe	Leu Phe Pro Pro Lys Pro	215	220	225
Lys Asp Thr Leu	Met Ile Ser Arg Thr	Pro Glu Val Thr Cys Val	230	235	240
Val Val Asp Val	Ser His Glu Asp Pro	Glu Val Lys Phe Asn Trp	245	250	255
Tyr Val Asp Gly	Val Glu Val His Asn	Ala Lys Thr Lys Pro Arg	260	265	270
Glu Glu Gln Tyr	Asn Ser Thr Tyr Arg	Val Val Ser Val Leu Thr	275	280	285
Val Leu His Gln	Asp Trp Leu Asn Gly	Lys Glu Tyr Lys Cys Lys	290	295	300
Val Ser Asn Lys	Ala Leu Pro Ala Pro	Ile Glu Lys Thr Ile Ser	305	310	315
Lys Ala Lys Gly	Gln Pro Arg Glu Pro	Gln Val Tyr Thr Leu Pro			

				320						325					330
Pro	Ser	Arg	Glu	Glu	Met	Thr	Lys	Asn	Gln	Val	Ser	Leu	Thr	Cys	
				335					340					345	
Leu	Val	Lys	Gly	Phe	Tyr	Pro	Ser	Asp	Ile	Ala	Val	Glu	Trp	Glu	
				350					355					360	
Ser	Asn	Gly	Gln	Pro	Glu	Asn	Asn	Tyr	Lys	Thr	Thr	Pro	Pro	Val	
				365					370					375	
Leu	Asp	Ser	Asp	Gly	Ser	Phe	Phe	Leu	Tyr	Ser	Lys	Leu	Thr	Val	
				380					385					390	
Asp	Lys	Ser	Arg	Trp	Gln	Gln	Gly	Asn	Val	Phe	Ser	Cys	Ser	Val	
				395					400					405	
Met	His	Glu	Ala	Leu	His	Asn	His	Tyr	Thr	Gln	Lys	Ser	Leu	Ser	
				410					415					420	
Leu	Ser	Pro	Gly	Lys											
				425											

<210> 14

<211> 212

<212> PRT

<213> Homo sapiens

<400> 14

Met	Asn	Ser	Phe	Ser	Thr	Ser	Ala	Phe	Gly	Pro	Val	Ala	Phe	Ser	
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Leu	Gly	Leu	Leu	Leu	Val	Leu	Pro	Ala	Ala	Phe	Pro	Ala	Pro	Val	
				20					25					30	
Pro	Pro	Gly	Glu	Asp	Ser	Lys	Asp	Val	Ala	Ala	Pro	His	Arg	Gln	
				35					40					45	
Pro	Leu	Thr	Ser	Ser	Glu	Arg	Ile	Asp	Lys	Gln	Ile	Arg	Tyr	Ile	
				50					55					60	
Leu	Asp	Gly	Ile	Ser	Ala	Leu	Arg	Lys	Glu	Thr	Cys	Asn	Lys	Ser	
				65					70					75	
Asn	Met	Cys	Glu	Ser	Ser	Lys	Glu	Ala	Leu	Ala	Glu	Asn	Asn	Leu	
				80					85					90	
Asn	Leu	Pro	Lys	Met	Ala	Glu	Lys	Asp	Gly	Cys	Phe	Gln	Ser	Gly	
				95					100					105	
Phe	Asn	Glu	Glu	Thr	Cys	Leu	Val	Lys	Ile	Ile	Thr	Gly	Leu	Leu	
				110					115					120	
Glu	Phe	Glu	Val	Tyr	Leu	Glu	Tyr	Leu	Gln	Asn	Arg	Phe	Glu	Ser	
				125					130					135	
Ser	Glu	Glu	Gln	Ala	Arg	Ala	Val	Gln	Met	Ser	Thr	Lys	Val	Leu	
				140					145					150	

Ile	Gln	Phe	Leu	Gln	Lys	Lys	Ala	Lys	Asn	Leu	Asp	Ala	Ile	Thr
				155					160					165
Thr	Pro	Asp	Pro	Thr	Thr	Asn	Ala	Ser	Leu	Leu	Thr	Lys	Leu	Gln
				170					175					180
Ala	Gln	Asn	Gln	Trp	Leu	Gln	Asp	Met	Thr	Thr	His	Leu	Ile	Leu
				185					190					195
Arg	Ser	Phe	Lys	Glu	Phe	Leu	Gln	Ser	Ser	Leu	Arg	Ala	Leu	Arg
				200					205					210

Gln Met

<210> 15
 <211> 320
 <212> PRT
 <213> Homo sapiens

<400> 15
Met Gly Ala Ala Arg Ser Pro Pro Ser Ala Val Pro Gly Pro Leu
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Leu Gly Leu Leu Leu Leu Leu Leu Gly Val Leu Ala Pro Gly Gly
20 25 30
Ala Ser Leu Arg Leu Leu Asp His Arg Ala Leu Val Cys Ser Gln
35 40 45
Pro Gly Leu Asn Cys Thr Val Lys Asn Ser Thr Cys Leu Asp Asp
50 55 60
Ser Trp Ile His Pro Arg Asn Leu Thr Pro Ser Ser Pro Lys Asp
65 70 75
Leu Gln Ile Gln Leu His Phe Ala His Thr Gln Gln Gly Asp Leu
80 85 90
Phe Pro Val Ala His Ile Glu Trp Thr Leu Gln Thr Asp Ala Ser
95 100 105
Ile Leu Tyr Leu Glu Gly Ala Glu Leu Ser Val Leu Gln Leu Asn
110 115 120
Thr Asn Glu Arg Leu Cys Val Arg Phe Glu Phe Leu Ser Lys Leu
125 130 135
Arg His His His Arg Arg Trp Arg Phe Thr Phe Ser His Phe Val
140 145 150
Val Asp Pro Asp Gln Glu Tyr Glu Val Thr Val His His Leu Pro
155 160 165
Lys Pro Ile Pro Asp Gly Asp Pro Asn His Gln Ser Lys Asn Phe
170 175 180
Leu Val Pro Asp Cys Glu His Ala Arg Met Lys Val Thr Thr Pro

	185		190		195
Cys Met Ser Ser Gly Ser Leu Trp Asp Pro Asn Ile Thr Val Glu	200		205		210
Thr Leu Glu Ala His Gln Leu Arg Val Ser Phe Thr Leu Trp Asn	215		220		225
Glu Ser Thr His Tyr Gln Ile Leu Leu Thr Ser Phe Pro His Met	230		235		240
Glu Asn His Ser Cys Phe Glu His Met His His Ile Pro Ala Pro	245		250		255
Arg Pro Glu Glu Phe His Gln Arg Ser Asn Val Thr Leu Thr Leu	260		265		270
Arg Asn Leu Lys Gly Cys Cys Arg His Gln Val Gln Ile Gln Pro	275		280		285
Phe Phe Ser Ser Cys Leu Asn Asp Cys Leu Arg His Ser Ala Thr	290		295		300
Val Ser Cys Pro Glu Met Pro Asp Thr Pro Glu Pro Ile Pro Asp	305		310		315
Tyr Met Pro Leu Trp	320				

<210> 16
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 16
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 tcacggatga aaccgtatgc ccgcatggag gagtatgaga ggaacatcga 200
 ggagatggtg gccagctga ggaacagctc agagctggcc cagagaaagt 250
 gtgaggtcaa cttgcagctg tggatgtcca acaagaggag cctgtctccc 300
 tggggctaca gcatcaacca cgaccccagc cgtatccccg tggacctgcc 350
 ggaggcacgg tgcctgtgtc tgggctgtgt gaacccttc accatgcagg 400
 aggaccgcag catggtgagc gtgccggtgt tcagccaggt tcctgtgcgc 450
 cgccgcctct gcccgccacc gcccgcaca gggccttgcc gccagcgcgc 500
 agtcatggag accatcgctg tgggctgcac ctgcatcttc tga 543

<210> 17

<211> 594
 <212> DNA
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<400> 17
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 ctgctggctc gaggtgccaa gtgggggag gctttgcctg tagccctggt 200
 gtccagcctg gaggcagcaa gccacagggg gaggcacgag aggcctcag 250
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 acccaccagc gctccatctc accctggaga taccgtgtgg acacggatga 350
 ggaccgctat ccacagaagc tggccttcgc cgagtgcctg tgcagaggct 400
 gtatcgatgc acggacgggc cgcgagacag ctgcgctcaa ctccgtgcgg 450
 ctgctccaga gcctgtggt gctgcgccgc cggccctgct cccgcgacgg 500
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<210> 18
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> HIS tag

<400> 18
 Gly His His His His His His His
 1 5

<210> 19
 <211> 157
 <212> PRT
 <213> Homo sapiens

<400> 19
 Val Arg Ser Ser Ser Arg Thr Pro Ser Asp Lys Pro Val Ala His
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 Val Val Ala Asn Pro Gln Ala Glu Gly Gln Leu Gln Trp Leu Asn
 20 25 30
 Arg Arg Ala Asn Ala Leu Leu Ala Asn Gly Val Glu Leu Arg Asp
 35 40 45
 Asn Gln Leu Val Val Pro Ser Glu Gly Leu Tyr Leu Ile Tyr Ser
 50 55 60

Gln Val Leu Phe Lys Gly Gln Gly Cys Pro Ser Thr His Val Leu
 65 70 75
 Leu Thr His Thr Ile Ser Arg Ile Ala Val Ser Tyr Gln Thr Lys
 80 85 90
 Val Asn Leu Leu Ser Ala Ile Lys Ser Pro Cys Gln Arg Glu Thr
 95 100 105
 Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu Pro Ile Tyr Leu
 110 115 120
 Gly Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu Ser Ala Glu
 125 130 135
 Ile Asn Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly Gln Val
 140 145 150
 Tyr Phe Gly Ile Ile Ala Leu
 155

<210> 20
 <211> 21
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> IL-17R PCR Primer

<400> 20
 ctgtacctcg aggggtgcaga g 21

<210> 21
 <211> 58
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> IL-17R PCR Primer

<400> 21
 cccaagcttg ggtcaatgat gatgatgatg atgatgatgc cacaggggca 50
 tgtagtcc 58

<210> 22
 <211> 328
 <212> PRT
 <213> Homo sapiens

<400> 22
 Met Gly Ala Ala Arg Ser Pro Pro Ser Ala Val Pro Gly Pro Leu
 1 5 10 15
 Leu Gly Leu Leu Leu Leu Leu Leu Gly Val Leu Ala Pro Gly Gly
 20 25 30
 Ala Ser Leu Arg Leu Leu Asp His Arg Ala Leu Val Cys Ser Gln

35										40					45				
Pro	Gly	Leu	Asn	Cys	Thr	Val	Lys	Asn	Ser	Thr	Cys	Leu	Asp	Asp					
				50					55					60					
Ser	Trp	Ile	His	Pro	Arg	Asn	Leu	Thr	Pro	Ser	Ser	Pro	Lys	Asp					
				65					70					75					
Leu	Gln	Ile	Gln	Leu	His	Phe	Ala	His	Thr	Gln	Gln	Gly	Asp	Leu					
				80					85					90					
Phe	Pro	Val	Ala	His	Ile	Glu	Trp	Thr	Leu	Gln	Thr	Asp	Ala	Ser					
				95					100					105					
Ile	Leu	Tyr	Leu	Glu	Gly	Ala	Glu	Leu	Ser	Val	Leu	Gln	Leu	Asn					
				110					115					120					
Thr	Asn	Glu	Arg	Leu	Cys	Val	Arg	Phe	Glu	Phe	Leu	Ser	Lys	Leu					
				125					130					135					
Arg	His	His	His	Arg	Arg	Trp	Arg	Phe	Thr	Phe	Ser	His	Phe	Val					
				140					145					150					
Val	Asp	Pro	Asp	Gln	Glu	Tyr	Glu	Val	Thr	Val	His	His	Leu	Pro					
				155					160					165					
Lys	Pro	Ile	Pro	Asp	Gly	Asp	Pro	Asn	His	Gln	Ser	Lys	Asn	Phe					
				170					175					180					
Leu	Val	Pro	Asp	Cys	Glu	His	Ala	Arg	Met	Lys	Val	Thr	Thr	Pro					
				185					190					195					
Cys	Met	Ser	Ser	Gly	Ser	Leu	Trp	Asp	Pro	Asn	Ile	Thr	Val	Glu					
				200					205					210					
Thr	Leu	Glu	Ala	His	Gln	Leu	Arg	Val	Ser	Phe	Thr	Leu	Trp	Asn					
				215					220					225					
Glu	Ser	Thr	His	Tyr	Gln	Ile	Leu	Leu	Thr	Ser	Phe	Pro	His	Met					
				230					235					240					
Glu	Asn	His	Ser	Cys	Phe	Glu	His	Met	His	His	Ile	Pro	Ala	Pro					
				245					250					255					
Arg	Pro	Glu	Glu	Phe	His	Gln	Arg	Ser	Asn	Val	Thr	Leu	Thr	Leu					
				260					265					270					
Arg	Asn	Leu	Lys	Gly	Cys	Cys	Arg	His	Gln	Val	Gln	Ile	Gln	Pro					
				275					280					285					
Phe	Phe	Ser	Ser	Cys	Leu	Asn	Asp	Cys	Leu	Arg	His	Ser	Ala	Thr					
				290					295					300					
Val	Ser	Cys	Pro	Glu	Met	Pro	Asp	Thr	Pro	Glu	Pro	Ile	Pro	Asp					
				305					310					315					
Tyr	Met	Pro	Leu	Trp	His	His	His	His	His	His	His	His	His						
				320					325										

<210> 23
 <211> 175
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> IL-17B His tag

<400> 23
 Ile Phe Leu Gly Leu Gly Gln Pro Arg Ser Pro Lys Ser Lys Arg
 1 5 10 15
 Lys Gly Gln Gly Arg Pro Gly Pro Leu Ala Pro Gly Pro His Gln
 20 25 30
 Val Pro Leu Asp Leu Val Ser Arg Met Lys Pro Tyr Ala Arg Met
 35 40 45
 Glu Glu Tyr Glu Arg Asn Ile Glu Glu Met Val Ala Gln Leu Arg
 50 55 60
 Asn Ser Ser Glu Leu Ala Gln Arg Lys Cys Glu Val Asn Leu Gln
 65 70 75
 Leu Trp Met Ser Asn Lys Arg Ser Leu Ser Pro Trp Gly Tyr Ser
 80 85 90
 Ile Asn His Asp Pro Ser Arg Ile Pro Val Asp Leu Pro Glu Ala
 95 100 105
 Arg Cys Leu Cys Leu Gly Cys Val Asn Pro Phe Thr Met Gln Glu
 110 115 120
 Asp Arg Ser Met Val Ser Val Pro Val Phe Ser Gln Val Pro Val
 125 130 135
 Arg Arg Arg Leu Cys Pro Pro Pro Pro Arg Thr Gly Pro Cys Arg
 140 145 150
 Gln Arg Ala Val Met Glu Thr Ile Ala Val Gly Cys Thr Cys Ile
 155 160 165
 Phe Gly His His His His His His His His
 170 175

<210> 24
 <211> 206
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> IL-17C-His tag

<400> 24
 Met Thr Leu Leu Pro Gly Leu Leu Phe Leu Thr Trp Leu His Thr
 1 5 10 15
 Cys Leu Ala His His Asp Pro Ser Leu Arg Gly His Pro His Ser

Thr	Asn	Gly	Lys	Val	Leu	Lys	Lys	Arg	Arg	Leu	Ser	Leu	Ser	Gln	
				80					85					90	
Ser	Ile	Thr	Asp	Asp	Asp	Leu	Glu	Ala	Ile	Ala	Asn	Asp	Ser	Glu	
				95					100					105	
Glu	Glu	Ile	Ile	Lys	Pro	Arg	Ser	Ala	Pro	Phe	Ser	Phe	Leu	Ser	
				110					115					120	
Asn	Val	Lys	Tyr	Asn	Phe	Met	Arg	Ile	Ile	Lys	Tyr	Glu	Phe	Ile	
				125					130					135	
Leu	Asn	Asp	Ala	Leu	Asn	Gln	Ser	Ile	Ile	Arg	Ala	Asn	Asp	Gln	
				140					145					150	
Tyr	Leu	Thr	Ala	Ala	Ala	Leu	His	Asn	Leu	Asp	Glu	Ala	Val	Lys	
				155					160					165	
Phe	Asp	Met	Gly	Ala	Tyr	Lys	Ser	Ser	Lys	Asp	Asp	Ala	Lys	Ile	
				170					175					180	
Thr	Val	Ile	Leu	Arg	Ile	Ser	Lys	Thr	Gln	Leu	Tyr	Val	Thr	Ala	
				185					190					195	
Gln	Asp	Glu	Asp	Gln	Pro	Val	Leu	Leu	Lys	Glu	Met	Pro	Glu	Ile	
				200					205					210	
Pro	Lys	Thr	Ile	Thr	Gly	Ser	Glu	Thr	Asn	Leu	Leu	Phe	Phe	Trp	
				215					220					225	
Glu	Thr	His	Gly	Thr	Lys	Asn	Tyr	Phe	Thr	Ser	Val	Ala	His	Pro	
				230					235					240	
Asn	Leu	Phe	Ile	Ala	Thr	Lys	Gln	Asp	Tyr	Trp	Val	Cys	Leu	Ala	
				245					250					255	
Gly	Gly	Pro	Pro	Ser	Ile	Thr	Asp	Phe	Gln	Ile	Leu	Glu	Asn	Gln	
				260					265					270	

Ala

<210> 26
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 26
 Met Glu Ile Cys Arg Gly Leu Arg Ser His Leu Ile Thr Leu Leu
 1 5 10 15
 Leu Phe Leu Phe His Ser Glu Thr Ile Cys Arg Pro Ser Gly Arg
 20 25 30
 Lys Ser Ser Lys Met Gln Ala Phe Arg Ile Trp Asp Val Asn Gln
 35 40 45
 Lys Thr Phe Tyr Leu Arg Asn Asn Gln Leu Val Ala Gly Tyr Leu

	50		55		60
Gln Gly Pro Asn Val Asn Leu Glu Glu Lys Ile Asp Val Val Pro	65		70		75
Ile Glu Pro His Ala Leu Phe Leu Gly Ile His Gly Gly Lys Met	80		85		90
Cys Leu Ser Cys Val Lys Ser Gly Asp Glu Thr Arg Leu Gln Leu	95		100		105
Glu Ala Val Asn Ile Thr Asp Leu Ser Glu Asn Arg Lys Gln Asp	110		115		120
Lys Arg Phe Ala Phe Ile Arg Ser Asp Ser Gly Pro Thr Thr Ser	125		130		135
Phe Glu Ser Ala Ala Cys Pro Gly Trp Phe Leu Cys Thr Ala Met	140		145		150
Glu Ala Asp Gln Pro Val Ser Leu Thr Asn Met Pro Asp Glu Gly	155		160		165
Val Met Val Thr Leu Phe Tyr Phe Gln Glu Asp Glu	170		175		